

petrol\_data = load 'petrol\_dataset' using PigStorage(',') as (districtid:chararray, distri\_name:chararray, buy\_rate:chararray, sell\_rate:chararray, vol\_in:int, vol\_out:int, year:int);

**1.What is the total amount of petrol in volume sold by every distributer?**

petrol\_dat\_grp = group petrol\_data by distri\_name;

petrol\_tot\_vol = foreach petrol\_dat\_grp generate SUM(petrol\_data.vol\_in)-SUM(petrol\_data.vol\_out);

(24246)

(26943)

(27100)

(22587)

**2. Which are the top 10 distributers ID's for selling petrol? Also display the amount of petrol sold in volume.**

petrol\_dat\_grp = group petrol\_data by districtid;

petrol\_tot\_vol = foreach petrol\_dat\_grp generate SUM(petrol\_data.vol\_in)-SUM(petrol\_data.vol\_out) as vol, petrol\_data. districtid;

petrol\_tot\_vol\_order = ORDER petrol\_tot\_vol by vol DESC;

petrol\_tot\_vol\_filter = LIMIT petrol\_tot\_vol\_order 10;

(483,{(E6U 0I2)})

(480,{(R3W 2E3)})

(478,{(I2N 7S1)})

(474,{(A7Z 3L9)})

(464,{(V8S 4P6)})

(460,{(C0G 8G1)})

(457,{(C9B 3Q8)})

(455,{(M1J 2H6)})

(452,{(T4L 8D0)})

(446,{(J7Z 9V4)})

**3. List 10 years where consumption of petrol is more with the distributer id who sold it.**

petrol\_dat\_grp = group petrol\_data by year;

petrol\_tot\_vol = foreach petrol\_dat\_grp generate SUM(petrol\_data.vol\_in)-SUM(petrol\_data.vol\_out) as vol, petrol\_data.districtid, petrol\_data.year;

petrol\_tot\_vol\_order = ORDER petrol\_tot\_vol by vol DESC;

petrol\_tot\_vol\_filter = LIMIT petrol\_tot\_vol\_order 10;

(483,{(E6U 0I2)},{(1646)})

(480,{(R3W 2E3)},{(1767)})

(478,{(I2N 7S1)},{(1935)})

(474,{(A7Z 3L9)},{(1795)})

(464,{(V8S 4P6)},{(1732)})

(460,{(C0G 8G1)},{(1843)})

(457,{(C9B 3Q8)},{(1782)})

(455,{(M1J 2H6)},{(1693)})

(452,{(T4L 8D0)},{(2000)})

(446,{(J7Z 9V4)},{(1748)})

**4. Find the distributer name who sold petrol in least amount.**

petrol\_dat\_grp = group petrol\_data by districtid;

petrol\_tot\_vol = foreach petrol\_dat\_grp generate SUM(petrol\_data.vol\_in)-SUM(petrol\_data.vol\_out) as vol, petrol\_data.districtid;

petrol\_tot\_vol\_order = ORDER petrol\_tot\_vol by vol ASC;

petrol\_tot\_vol\_filter = LIMIT petrol\_tot\_vol\_order 1;

(15,{(F9Y 5E6)})